2020-21
X– PHYSICAL SCIENCE – (General Science - I)
MODEL PAPER-5, E/M

CLASS-X   PART: A & B   MAX, MARKS: 40   TIME: 1.35 Hrs

PART – A (Marks:30)

SECTIONS: I(3x2=6 Marks)

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1) How can you prevent the corrosion?

2) Write about Junction Law? If current into Junction not equal to current leaving junction?

3) Write about penetration power of the Orbital's

4) Write the Four quantum numbers for circled electron?

5) If variable aperture is not working what happened

6) You may draw neat diagram for lens marker's formula?

SECTIONS II (2x4=8 Marks)

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7) Draw the ray diagram for Bi-Concave Len when the objects are keeping in different places infront of lens?

8) Suggest to your friend he has suffering from Myopia defect but he has used Bi-Convex. How can you correct it ?

9) How can you suggest or correct the Bohr - summerfeld atomic Structure?

10) Write the Electron configuration cu, ca, A1

SECTIONS III (2x8=16 Marks)

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11) If you understand periodic table, you explain about on periodic properties like, metallic nature Electro negativity, Electron affinity, and Groups periods classify them?

12) What Factors affecting for the resistance of a material explain it?

13) How can you Extraction of metals in the top of the activity series?

14) For Refining of the metal you may explain about four processes?

PART - B (1x10=10 Marks)
BIT PAPER
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1) In Electrolytic refining impurities are constituting at_____[   ]

   (a) Anode   (b) cathode   (c) a&b   (d) No one

2) The following High reactivity metal is _____   [   ]

   (a) Au   (b) Cu   (c) Ca   (d) Ag

3) Cinnabar ore formula   _____   [   ]

   (a) Zno   (b) Zns   (c) Agcl   (d) Hgs

4) Find the Equivalent resistance of resistors 4Ω, 6Ω, 8Ω, in series

   (a) $4\ \Omega$,   (b) $6\ \Omega$,   (c) $18\ \Omega$,   (d) $8\ \Omega$,

5) Reciprocal of resistivity is _____   [   ]

   (a) Conductivity   (b) Resistor (c) Capacitor   (d) None of above

6) Semi conductors are used to make   [   ]

   (a) Glass   (b) a&c   (c) Diodes   (d) No one

7) Electrical current (I) =   [   ]

   (a) Q/t   (b) V/t   (c) t/Q   (d) C/V

8) Identify the metalloid   [   ]

   (a) C   (b) pb   (c) Si   (d) O

9) Ionization energy is expressed in   [   ]

   (a) Kj mol^{-1} (b) columbs   (c) Ampere   (d) Watt

10) Which orbital is having dowble dumbbell shape   [   ]

   (a) S   (b) p   (c) d   (d) f